

Daily Universe

MONDAY MAGAZINE

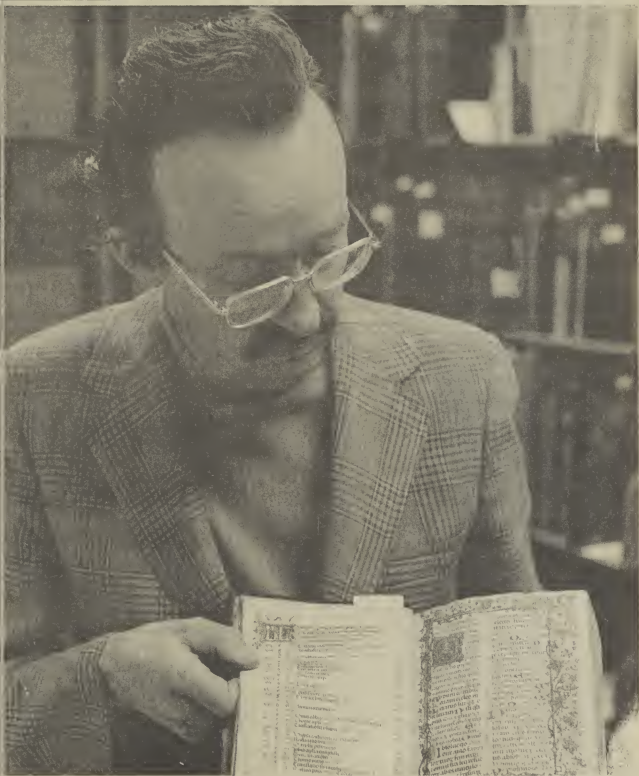
Brigham Young University

374-1211 Ext. 2937

Vol 25, No 110

Provo, Utah

Monday, February 26, 1973



Special collections curator Chad Flake displays the intricate artwork created by monastic bookmakers of the sixteenth and seventeenth centuries. The story behind the exquisite manuscripts and early Church documents is told on pages two and three.

Photo by Walter



Photo by Walter Sahabuk

Flake (above), shows the hand paintings and lettering used to "illuminate" the pages of old world texts. Special Collections also contains a great deal of Mormon American literature, including the first editions of the Book of Mormon (below).

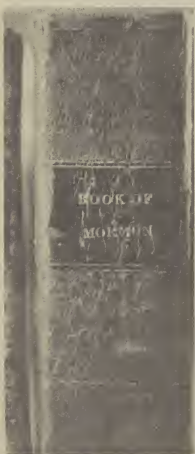


Photo by Robert Martin

Many of the documents from the recently acquired Nauvoo Collection are financial statements with signatures of the Prophet Joseph Smith and his brother Hyrum.

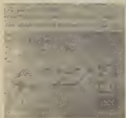


Photo by Robert Martin

One of the rarities of the Mormon Americana collection is the first edition of the Book of Mormon (right), here turned to a chapter in Alma. Interestingly enough, the verses aren't numbered.

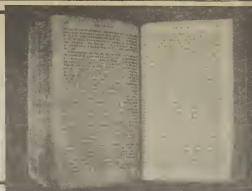


Photo by Robert Martin

"I said I hadn't seen it,

By JEFF HOUSE

"This was an old book when Columbus sailed for America," says Chad Flake, as he thumbs through the pages of a manuscript published in 1479.

Past the iron-clad door that seals off "the vault" in the Special Collections section of the J. Reuben Clark Library, Flake, curator of Special Collections, pulls out volume after volume of rare and oftentimes valuable works of literature.

Flake turns the yellow, ink-bedecked pages of non-existent times. Pages of a long-ago-slipped-away age either stiffen or wilt under his touch as he speaks of their history.

"A woman came in and showed me a piece and asked me if I had ever seen it before. I said I hadn't. Nobody had since 1860," he said.

"WE COLLECT anything that is too rare to be in the regular library. Factors for determining what comes in here include age, price and physical condition." Delving into literature specifically, Special Collections deals with "any book which needs special handling."

Within the recesses of the vault are numerous rarities. For example: the first editions of the Book of Mormon and the Book of Commandments; collections of the "Palmyra Reflector," a magazine that carried the first issues of the Book of Mormon; a leaf from the 1450 Gutenberg printing of the King James Bible, a 1476 edition of Specula Morale with the original binding, and other historical pieces of literature.

"When we had a small collection, I knew where everything was. Now that we're bigger, I lose things," he murmurs as he moves through the book-lined shelves in search of more works to display.

MATERIAL in the Special Collections section divides into 17 collections covering "just about any subject." There is a great amount of material on Mormon Americana which Flake considers to be second only to the collection in the Church Historian's Office. Collections result when a great amount of material is amassed on one subject.

Collections include the Victorian Literature Collection,

the Melville Collection, the Whitman Collection, the Wordsworth Collection and others. Sometimes a collection will be named after the man who provided a special contribution of material in one area such as the Leroy Hafen Collection or the J. Reuben Clark Collection.

MOVING ALONG shelves of rare old manuscripts, each in hard cover bindings, Flake pulls down a volume by an English theologian named Bede. He uses the volume to point out printing idiosyncrasies of that era. He points to the vellum on which the words are written, and notes that the paper was once so expensive that writers would erase previous works inscribed on the material rather than purchase new paper. He points to various small holes in the pages (flaws) that were simply written around.

ACCORDING TO Flake, most of the earlier literature from as early as the third century to as late as the 16th was transcribed by monasteries. Many of the

books in the collection have painted backs done ages ago by monastic workers. Since there were no periods or capitalization then, much of the reading was dull. Thus the introduction of hand paintings and fancy lettering to "illuminate" the page.

For the most part, materials are purchased for research by students. The books are available to graduates for that purpose, but not to undergraduates except in special cases. Buying is the least important of collection workers' functions. The staff is primarily concerned with the processing and obtaining of works.

Materials are acquired "every way imaginable," but most come through book dealers and friends of the library.

"NO ONE should be in possession of a rare document," stresses Flake. He tells stories of families who have had valuable items in their hands and somehow lost them. Sometimes a moth-eaten book and the rest of the family simply throws her papers away. Other cases include it



Photo by Walter Sahabuk

Flake, curator of the Special Collections, has worked with the section for 16 years. He refers to himself as "a history-of-printing man."

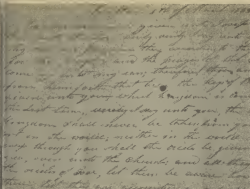


Photo by Robert Martin

Among the many hand-written documents of the Nauvoo Collection (left) is the first draft of the Nauvoo Charter. The documents were preserved by Newell K. Whitney when the saints were driven from Nauvoo.



Photo by Walter Salzbach

One of the many attempts at illuminating the texts of Old World literature included this example of painting the edge of the book (above). Below, the Mormon Americana Collection also includes first editions of the Book of Mormon, the Doctrine and Covenants and Sacred Hymns.

nobody had since 1860"

and father's diary that was so special, a leaf torn out and given to each member of the family for their individual Books of Remembrances. All very well for the family but a loss for others that could benefit from their information and insight.

"An innate interest in the book as a physical object" is what lured me into the study of research as well as an interest in what the book itself offers. "I'm a history-of-printing man myself," he nonchalantly proclaims.

"TWO YEARS ago when I was sitting in a bank vault in Salt Lake City going through the Whitney Collection, I came across 17 signal hand-written revelations from the Doctrine and Covenants. The excitement was unbearable

and this is true in many cases. It's fantastically exciting."

With that he heads down a passageway and returns with a small box extracting a vase-like structure from it. Delving into a pottery item he produces a curled up piece of paper. Unfurling it he reveals one of the 1,000,000 charms drawn up and issued by the Empress Shotoku of Japan. The date is 770 A.D. Because of anti-Buddhist actions, most of the charms were originally destroyed. Flake holds one of the survivors in his hands.

BEYOND THE pragmatic reason of research to justify their being sought, Flake points to the excitement of discovering the past through the special collections. Beyond the practical, is the thrill. "Just to see it again," he says.

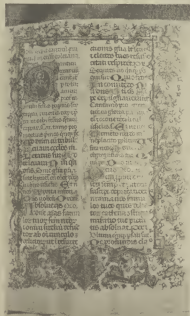


Photo by Walter Salzbach

The above example indicates the painstaking time taken to paint and illustrate the texts of European literature by the monasteries.

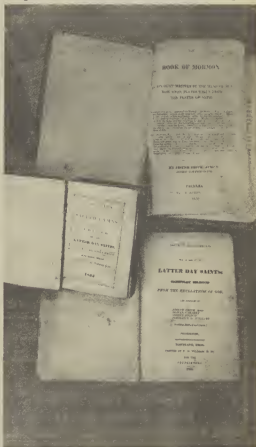


Photo by Robert Martin

One of the many characteristics of Old World literature included this act of latching the text.



Photo by Walter Salzbach

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Minding the 'p's and

By KAY BLEACH

"I am perfect."

These words were printed on a
small notice on one of the
typesetters' desks at BYU's
University Office. What more
appropriate motto could there be
in this department? Because even
though they strive for perfection,
sometimes human error creeps in.
Some psychologists claim that
errors are intentional. Uncon-
scious motivation trips the
tongue, or finger, so that we say
exactly what we mean, while
apparently making a mistake. This
leads to conjecture. Was the
author, who referred to
"Latter-day Satans," a
non-member... or an apostate?
And what kind of problems did
the typesetter have who left out
the "c" in faculty, giving us
"faculty" advisers?

Some of the mistakes found by
the proofreaders at the Press can
be humorous, but sometimes it is
necessary to have a peculiar sense
of humor. Other errors can be just
plain embarrassing.

Proofreaders sometimes wonder
if the typesetter make mistakes
on purpose. And typesetters say
the problem is the "awful writing
and crammed instructions of the
editor." The editor holds his head
as he tries to mind-read the
author's intentions. The author?
he isn't saying.

MOST PEOPLE who work at
the Press are either former
students or are working part-time
as they study. Lane Johnson, one
of the editors, majored in history.
He has enjoyed the last 18 months
at his job and expects to "go on
doing this kind of thing for
good."

Johnson is responsible for the
quality of each publication. His
criticism? End results must be
pleasing, "like a painting," and
the book should read well. To
achieve this, he has to catch
poorly worded phrases, bad
grammar and breaches of the style
manual.

Sentences can often be easily
misinterpreted. One author,
writing about Abraham, said that
he has not less "was saved from
being sacrificed by an angel."
Another, referring to the pioneers,
stated that "hard work was all
that was needed to start a family
with an axe and a few other
tools."

Sometimes, though, it appears
such wording is intentional. A
book on outdoor survival showed
a man making some spears. The
caption read, "Included here are
some pointers for survival."

ONE OF Johnson's problems is
convincing the author that
editorial corrections are not
mangling their precious works.
Most of the time he can tell who
they are going to react. While they
are usually pleasant, sometimes
"some of them write memos,"
said Johnson. "Some of them call
up and yell at you. Some of them
even bring their securities and
object to every editorial mark
that's made."

How do you get your work in
print? First you have to write it,
and that's no easy task. Dr.
Kenneth Hamblin of the Geology
Dept. has been working on a
textbook for two years. He had
three draft copies in his cupboard,
while a fourth lay on his desk. He
quailed at the thought of writing a
fifth.

Once your work is in final form,
it must be approved by the
University Publications Selection
Committee. If they accept it, it
will be sent to the editorial

department and then typeset in a
galley proof before being
proofread. Be prepared to accept
the editor's changes—he's doing it
for the good of your publication.

WHAT KIND of changes does
Johnson have to make? Most
frequently the errors are grammar
or style. One author uses a
"German style," capitalizing
almost every word. Each one has
to be corrected. Another common
mistake is overuse of underlining
for emphasis. Johnson felt it
should be done sparingly, or it can
become an eyesore. It can also
lead to some funny situations.

For example, he pointed out I
Kings 13:27. "And he spake to his
sons, saying saddle me an ass. And
they saddled him."

Editing, according to Johnson,
"is something you have to have a
knack for, like proofreading. A
knack for writing doesn't
necessarily qualify a person for
editing."

One necessary qualification is
that of being a nitpicker. "You
have to have an eye for detail,"
The proofreaders agreed, but
paid it to call it "being
perfectionists."

Vicki Hughes, a Lompoc, Calif.,
sophomore majoring in French,
and Margaret Glade, a senior
English major, are proofreaders.
Currently they are working on
galley proofs for the BYU Catalog
for 1973/74. Reading this, they
said, it would seem that the Art
Dept. is expecting an influx of
"Newwegians" next year—but the

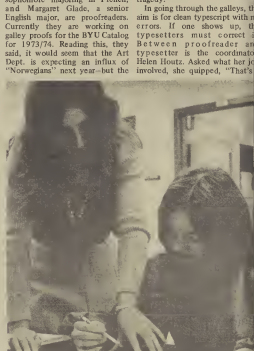
word was meant to be
"non-majors."

EACH GALLEY sheet contains
three pages; a single book may
contain 100 sheets or more. The
proofreaders read every word, and
then it's read a second time to
correct mistakes. Exchanged
sheets, proofreaders repeat it
catch anything the other missed.
Since the editor does the same,
the three sheets may go into
each sheet. Sometimes three
four galley proofs are required
before getting clean copy.

Occasionally an error gets by
almost until the last minute.
Usually it will be a minor mistake,
but may have drastic results, such
as when the first "I" was left out of
"Immortality." It was caught
luckily, by accident.

Miss Hughes thinks the
Skyroom menus provide the
funniest errors. Items on the
menu have included overbaked
potatoes and shrimps over chine-
poodles.

FREQUENTLY a complete list
may be left out. Usually the
aim is for clean typeset with
no errors. If one shows up, the
typesetters must correct it.
Between a proofreader and
the coordinator, Helen Houtz,
involved, she quipped, "That's
all."



Photos by Randy Whitlock

Proofreaders Vicki Hughes and Vickie Moorfield weed out errors
found in written materials.

Daily

Universe

The Daily Universe is an official publication of Brigham Young University and
is published as a cooperative enterprise of student and faculty. It is produced as
a laboratory newspaper in the Department of Communications under the
supervision of the university's Board of Publications.

The Daily Universe is published Monday through Friday during the fall and
winter semesters except during vacation and examination periods.

Questions expressed in the Daily Universe do not necessarily reflect the views of
the student body, faculty, university administration, Board of Trustees, or the
Church of Jesus Christ of Latter-day Saints.

Second class postage paid at Provo, Utah 84601. It is entered September 1,
1978 under act of Congress, March 3, 1879. Subscription price: \$5.00
semester. Editorial offices: 538 Ernest L. Wilkinson Center, Provo, Utah
Brigham Young University Printing Service

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'q's at the Press

good question, I don't really know!"

Everything is put on magnetic tape in her department. This is then fed into a machine that types 80 words per minute, about three times as fast as an ordinary typist. On the tape are the instructions which tell the machine what to do.

"It's a complete idiot, you have to tell it everything," explained na Roberts.

A former BYU student, she is one of the few people west of the Mississippi who can do a particularly difficult kind of typesetting—intricate math formulas.

Not all errors are typing

mistakes. Some copies are so edited, crossed out and written over, that they cannot be read. The typesetter often has to guess, for example, "single" looked like "swiggle," and the mistake mentioned earlier (Norwegian) was a result of poor handwriting.

IF TAKEN literally, the wording can mean something different. Often an apartment will list "2 1/2 baths." Which half do they mean, and how does one keep water in it? Then it would appear that Ramblers are now being manufactured with two or three bedrooms. And is a built-in

vacuum another way of saying lots of space?

BYU's Press is like a large printing house because of the variety of published items. They handle the general catalog, the University Bulletin, text books, naturalist texts, BYU Speeches of the Year, and even a children's book.

All these items go through the same process. Once clean, they go to be pasted up, photographed, stripped, and paged into position. The next stage is the blueprint, the last one before printing.

It's a cardinal sin if an error is allowed to get through to this stage, as it is much more difficult and expensive to correct.

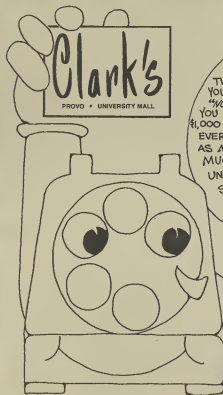


Editor Lane Johnson instructs proofreading staff on day's work load.

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Wouldn't you really rather have an igloo?

By KRIS R. PASSEY

The first one I ever heard about was balanced on a ledge 4,000 feet up the vertical terrain known as the north face of the Eiger.

Two Germans, Max Sedlmayr and Karl Mehringer, after four tortuous days and nights clawing their way up the wall, hacked it out of an ice cliff with climbing axes. Then they crawled inside to die of exhaustion and despair.

From then on, that point on the Eiger was called Death Bivouac. ROTC Ranger Cadets from BYU didn't have the macabre snow cave that clings to the side of Switzerland's infamous peak in mind when they planned a night in a survival shelter. A nice drift-bewn, commodious cave on the snowy flats of Aspen Grove would be fine.

"We purchased touring skis and snowshoes for the unit and wanted to take some time to get acquainted with the equipment," explained Cadet Major Kirk Rector, a senior in humanities from Washington, D.C. "To do it right, we just felt we should stay over night. Since this is a Ranger unit we have to be able to live and move in all kinds of conditions, including snow, so, doing it right also meant staying in an emergency shelter."

THE "EMERGENCY SHELTER" in this case turned out to be a snow cave—a big one. "It was about 25 feet long with three entrances. There was plenty of head room if you were in a sitting position. We had nine guys in there and there was room for more," Mark Ricketts, a graduate student from Syracuse, N.Y., explained.

Most snow caves are not this spacious. A common practice is you're stranded in the snowy woods without shelter is to burrow down around a tree trunk, enlarging the space under the boughs until you have enough room to lie down. The snow from beneath is placed on top of the lower boughs to act as extra insulation. Then a few of the smaller limbs are broken off and used as a mattress between you and the snow.

The army seemed to prefer air mattresses over the piny kind in their "plazas." One Cadet, Eric Johnson, even chose the comparatively harder floor of his station wagon, forsaking the glories of a snowy roof over his head. Seems his socks were soaked from using his feet as a scraper on the inside of the cave and he felt it would be adding insult to injury if he made them go inside again. "When you only have one pair of socks you try not to offend them," said Johnson.

MEMORY IS short, however, and the next morning an offense was committed. Apparently forgetting his resolve of the night before, Johnson was engaged in testing the strength of the snow cave roof when it relaxed, depositing Johnson—socks and all—squarely on the chest of Frank Willard, a busy junior, who had spent the night sleeping warmly inside the cave. Willard good-naturedly sent Johnson out the same way he had come in, muttering about hot air rising.

Is snow really a good insulator? Is it really warm? Bob Schoen, a dark-haired senior who plans a military career, said, "Not only did I not get cold, I got hot and had to unzip my bag to get cooled off."

Eskimo dogs often burrow into the snow when a severe storm is raging, or the mercury disappears into the bulb at the bottom of the thermometer. They have survived temperatures of minus 80 degrees and lower. One unwary Alaskan miner in the early days tried to duplicate this trick. He was frozen solid at sunup. He didn't notice the dog had left a hole to breath through.

VENTILATION in a snow cave is a critical factor. "If there is not enough ventilation you may use up all the oxygen and never wake up to find out what's missing. When you're cooking you have to watch out, too. Anything that burns is using oxygen much faster than a person just breathing. When you cook inside a cave or have a candle going, the door should be left unblocked," explained Ricketts. Carbon monoxide poisoning is also a danger.

If there is too much ventilation, however, you might as well be sleeping outdoors. "We had three candles going and we had a small vent for each candle—just a hole poked in the ceiling with a stick. Of course, we left two of the entrances uncovered all night anyway," said Rector.

As there are no utensils in a survival camp a trusty-shovel (in Army jargon it is called an entrenching tool) was set in the fire with a load of goat steak on its broad back. Soon there was a small not unlike lamb waiting up to the stars, joined occasionally by a spurt of grease from the red-hot entrenching tool. Surprisingly, there seemed no large demand for samples. Sophomore Cadet Ken Morzan, who brought the delicacy, Ricketts and a few others devoured the steak unchallenged.

Compared with some of the

strenuous endurance tests of the Rangers, like the 48-hour stay-awake desert combat simulation, or Ranger School itself where harassment and starvation are standard tools, the one night bivouac in a palatial snow cave might seem tame. But at least one cadet had apparently heard of the Eiger's famous Death Bivouac. He left camp late in the night and drove down to Provo for a snooze between soft mattress and comfy quilt, returning early in the morning to participate in the strenuous run down to Sundance on cross country skis. Yankee ingenuity will ever cheat death.



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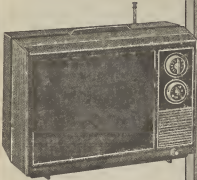
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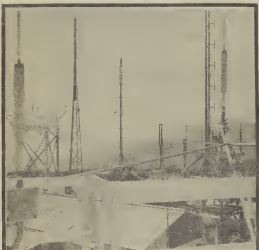
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It takes talent to be

By KATHY BOSWELL

"They work like the devil to sing like angels," is an accurate description of the world famous Vienna Boys' Choir that will appear in the Marriott Center Friday, March 2, at 8 p.m.

Near the city center the 22 choir boys between the ages of 10 and 14 years old study at their own school in Vienna, in a former palace. They have been a prominent feature in Vienna since July 7, 1498, when the Hapsburg Emperor Maximilian established the group by Imperial decree for the Austrian Court's private religious services.

A fine voice and a natural talent for music are still the preliminary requirements, even though selection is made by means of a semi-annual audition rather than through itinerant talent scouts sent abroad by the Emperor. About 100 children between the ages of seven and nine are chosen out of the thousands of yearly applicants.

These young musicians attend a special preparatory school where the curriculum emphasizes musical training. When a boy's voice changes, he is added by the institution in furthering his education for the career of his choice.

At the age of ten the student is examined, and if he is accepted as creatively and musically gifted (he must at this time be able to write simple musical compositions as well as sing and play one musical instrument), he is permitted to join one of the choirs.

The boys must live on the grounds, begin their day at 6:15 a.m., attend school all morning, spend their afternoons in musical practice, and follow a system of study that is hundreds of years old. In addition, they must master a musical repertoire that includes pre-Bach sacred and secular music, as well as music of the Classical

and Baroque periods of Vienna, and "little operas."

The program for Friday's performance will be divided into three parts. The first will be devoted to religious selections, including sacred songs in Latin, some written as early as the 16th century, and stemming from the choir's original function as part of

the Austrian court's private religious services.

There is a switch in mood as the boys change from their traditional sailor suits to high-beeled short dresses, and wigs for performance of the delightful one-act operetta "Tales from Vienna" set to Johann Strauss' immortal music. Although t



Early morning classes precede musical study for talented Austrian boys 10 to 14 years of age.

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'almost an angel'

familiar Strauss music will be sung in German, the spoken dialogue will be in English. The concert will end with a selection of secular and folk songs.

The choir was kept as a performing unit exclusively for the Hapsburg court until the fall of the Austrian Empire in 1918. Following that time, the school initiated public concerts to support itself.

In 1932 Impresario Sol Hurok brought the choir to the U.S. where it immediately charmed audiences and critics. For six seasons they toured North America, performing their unique program to packed houses.

The outbreak of the war curtailed their activities, when the late Father Joseph Schmitt, their cantor, was imprisoned by the Nazis because he refused to permit the organization to become a propaganda medium. With the end of hostilities, he reorganized the group, and by 1948 they were again featured in concert halls throughout the world.

A rotating system always leaves one complete choir in Vienna to sing at religious services at the Hofmusikappelle and St. Stephen's Cathedral, as well as to appear in performances requiring children at the Vienna State Opera. Other units travel around the world, and each boy is given

an opportunity to visit as many countries as possible.

The choir of boys have also become familiar to millions of Americans through the Walt Disney movie "Almost Angels," an ABC television special, and the Ed Sullivan Show. They have also made four recordings on the Phillips label.

Tickets for the concert are on sale in the music ticket office in the Harris Fine Arts Center for \$1 for students, staff and public.



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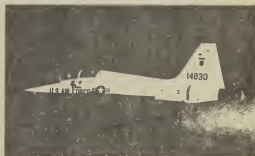
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Annual faculty lecturer

Microbiologist honored for research

By NANETTE LARSEN

Bacteria are more important to man than most people realize. Bacterial action is now being found in processes previously only related to chemical action.

One of the pioneers in this area of research is an internationally acclaimed BYU microbiologist, Dr. Jay V. Beck, a graduate of

both American Fork High and BYU.

In recognition of his scientific accomplishments, Beck will deliver the Annual Faculty Lecture on March 1 at 8 p.m. in the Madsen Recital Hall in the HFAC.

"The Annual Faculty Lecture was instituted about 10 years ago to recognize and give honor to a faculty member who had received distinction not only here, but among colleagues on the national and international level for his contributions in research and his creative efforts." This is the explanation of Dr. Richard Sagers, BYU professor of microbiology and member of the selection committee for the 1973 Annual Faculty Lecture.

One of Dr. Beck's most profound research projects concerns the discovery that the leaching process, by which 25 percent of the copper is mined in the United States, is actually a bacterial process, not a chemical process as previously assumed.

LEACHING IS a natural phenomenon which liberates a metal from ore by changing the metal to a water-soluble solution when water comes in contact with the ore.

"We have been able to show," said Beck, "that the bacteria act directly on the mineral, and not as many had suggested, by an indirect process. The bacteria



Dr. Jay V. Beck, annual faculty lecturer

release metals from the mineral into a soluble state by direct action on the mineral, and oxidize sulphur directly to sulphuric acid."

Only a certain kind of bacterium, scientifically called *Thiobacillus ferrooxidans*, will dissolve iron and copper mineral.

"This is the only kind of bacterium which can grow under these high acid conditions," explained Beck.

Mines had been carrying on the leaching technique many years before Beck's discovery. In fact, the leaching process was first noticed in Utah's Bingham Canyon in 1900. But the process was not extensively used in the mine operation until the 1930's.

"NOW THAT bacteria are known to be involved, the mines have made several changes that

have made their process more effective and efficient," said Beck.

"The mines have altered their conditions to favor the bacteria," he added.

Several future applications may exist for the leaching process. Beck said that Kennecott and other mines have considered putting stonem blasters deep into the ground in areas of low-grade ore. Then water would be pumped into the hole, where copper would dissolve in the water and be pumped out. Beck added that these deep mines may have to be inoculated with the bacteria.

The leaching process may also completely replace the smelting process in mining, thereby eliminating air pollution, said Beck.

Beck has been working on the role of bacteria in leaching minerals since 1951.

"We're very much interested in the way the bacteria do this to several minerals, and we have really only completed the study on two out of a possible 15 to 20 minerals of commercial importance," commented Beck.

BECK FIRST became interested in this type of research when he was a faculty member at Pennsylvania State University prior to coming to BYU in 1951. There, it had been found that acid, which had been polluting streams in coal-mining areas of Pennsylvania and Virginia, was

due to the action of a certain bacterium.

At BYU, Beck showed that the same bacterium could oxidize iron pyrite, liberating iron and producing acid.

Beck has also studied the way in which bacteria in the soil degrade herbicides.

In the 1940's the question arose whether herbicides might be added to the soil in such large quantities that they would destroy the beneficial effects of the microbes in the soil.

Through research at Pennsylvania State University, Beck showed that the recommended amounts of herbicides could be safely added to the soil with no ill effect. However, if these amounts were greatly exceeded, damage to the soil system could occur.

BECK, WHO CLAIMS that the best approach to microbiology through chemistry, first became interested in chemistry back in 1929 through his high school chemistry teacher, Lutha Giddings. He received both his bachelor's and master's degrees from BYU in chemistry. He then went on to obtain his Ph.D. in microbiology from the University of California at Berkeley.

In research at the University of California, Beck and his colleagues, Dr. H.A. Barker, discovered that the bacteria metabolize certain purines (components of DNA and RNA).

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Metal plates found, authenticity in doubt

By WENDY DUTCHER
Universe Staff Writer

Contrary to what many scientists believe, writings on metal plates have been discovered in the new world, according to Dr. Paul Cheesman.

Speaking to Anthropology and Archaeology Club members Thursday night, he referred to a specific case in Mexico.

"Although the gold plates which were found are purported to be authentic, they have not been determined yet," he said. "But, we know there are metal plates on this continent because Joseph Smith told us there were."

Eighteen years ago, a Dr. Pedilla accidentally discovered a set of 12 gold plates, said Dr. Cheesman.

While attempting to put up a tent pole, he and the men with him found that the ground underneath them was hollow.

AS THE MEN explored, they

came upon a tomb which contained many artifacts. Among these they found the gold plates in a dish on the sternum of the skeleton, said Dr. Cheesman.

Although the plates vary slightly in size, on the average they are about the size of a postage stamp. Plates one through five are engraved on one side only, but the remaining seven are engraved on both sides, he added.

"The inscriptions on the records are smooth and appear to be the work of a civilized culture," Dr. Cheesman said.

Thirty-eight of the inscriptions on the plates correspond with the inscriptions in the first four lines of the Anthon transcript, he noted.

ONE IDEA which tends to support the authenticity of the plates is that a row of characters on one of the plates correspond in an exact reversal of sequence with facsimile number two in the *Pearl of Great Price*, he said.

Dr. Cheesman, as director of the Book of Mormon Institute Project, has had the plates analyzed by X-ray and neutron analysis. He also has received the opinions of four top scholars around the country. Two of these scholars think the plates are genuine and the other two think they are fakes, he said.

According to Dr. Cheesman,



Dr. Cheesman

"You can't date metal, so it's easy to say they are fakes."

IN SPITE of the fact that more than 35 evidences of wheels, whole skeletons of horses and elephants, and copper, brass, and gold plates have been found in Peru, Ecuador, Guatemala and now in Mexico, many people refuse to believe it, said Dr. Cheesman.

They still agree with past scientists who did not accept the idea that the ancestors of the American Indian developed wheels, used steel, had elephants and horses, and had a civilized language of their own which they recorded on metal plates, he added.

"We are not investigating these external evidences to prove the 'Book of Mormon', it is the word of God and true in itself. We are using these as missionary tools," he concluded.

'Buddies' assist stakes

Students returning home for the summer may find themselves as "buddies" in their state.

A Buddy Program helps prospective BYU students gain a better understanding of the University. Buddies are BYU students who return home for the summer and work closely with their home state BYU Admissions Advisor to help students recently admitted to the school make the transition to University life.

According to Phil Cramer, chairman of the Buddy Program, many high school seniors apply to two or three different schools. Even though a student has been admitted to BYU, he may have been admitted to a number of other universities. Through this program, current BYU students

help others catch the "Spirit of the Y," said Cramer.

"Often students come to BYU and feel isolated. They go through several years before they are aware of student government, etc. Buddies will encourage high school graduates to participate in their freshman class," explained Cramer.

Interested students will be able to sign up in the Reception Center, ELWC, this week. An orientation meeting scheduled for next month will aid the selected students in this program.

At home these buddies will arrange pre-acquainted parties, firesides, informal question and answer discussions, and curriculum planning meetings.

Proposal calls for election of presidents in two balls

A proposed change in student housing government that awaits only Housing Office approval was announced at Thursday's freshman forum by freshman President Kevin Kane.

Under the new proposal, Hall presidents of Helaman Halls and Desert Towers would be elected instead of appointed. (Heritage Hall presidents are presently elected).

The proposal said the freshman Union office would be in charge of the election held at the end of winter semester. In the fall, a freshman representative would be elected from each dorm, and the hall council would be made up of

hall presidents and representatives, said Kane.

The new Inter-Housing Council would consist of two representatives from the three housing areas, presidents and representatives. Three of these would be freshmen, and the chairman would be the freshman class president.

"Seventy per cent of students living on campus are freshmen," said Kane, "and the new proposal would give them more representation."

Drop deadline Friday

March 2 is the last day students are able to drop classes. Drop cards are available at B-30 ASB. A fee of \$5 will be charged, according to a spokesman of the Registration Office.

World's fastest novelist

SDA honors Van Atta

The managing editor of the *Daily Universe*, Dale Van Atta, became an honorary member of the BYU Student Development Association during a special SDA meeting Thursday morning.

Rich Humphreys conducted the meeting which included all SDA officers and advisor, Carl Bacon. After a short review of Van Atta's accomplishments, Humphreys turned the time over to SDA president Dave Harman who made the presentation.

In his remarks, Harman pointed out that "more significant than the \$2,000 which came in, was the tremendous nation-wide publicity that the SDA received as a result of Dale's efforts."

Van Atta commented he had received several news inquiries from all over the country since the noveltion.

"It was really something. I was happy to push the SDA in this way, and I'm happy and proud to receive this certificate," he said.

Van Atta was presented with a certificate of honorary

membership, a chocolate cake baked by an SDA member and two tickets to the Fox Theatre. Coverage of the recent "noveltion" was carried on TV radio and newspaper from San Francisco to New York. Van Atta established a new world's record by writing a 220-page novel in less than 30 hours while sitting in store window.

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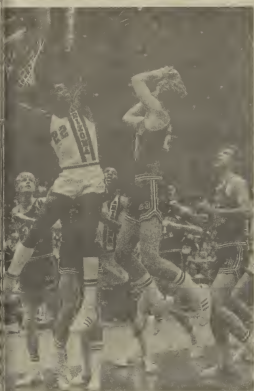
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Cougars win, lose---get WAC tie



Universe photo by Randy Wintnick.

Arizona's Coniel Norman not only scored 38 points Saturday, he played defense as shown here against Grig Clawson.

Loop standings locked up; WAC heads into final action

By THE ASSOCIATED PRESS

The Western Athletic conference is heading into its last week of play and the league championship is anything but sure.

In this week's standings, New Mexico and defending champion Brigham Young are tied for first with 9-4 records. Tied for third and fourth are Arizona State and Arizona with 8-4 marks.

A conference spokesman said today if a tie results from this week's play, the league would hold playoffs to determine the entrant in the National College

Cuts made

Cake bakers win

Twenty-sixth Branch belleathy Frodsham garnered first place in this year's Belle of the Y cake baking contest during the weekend.

Miss Frodsham, 21, is a sophomore majoring in sociology from La Mirada, Calif. Second place and third place winners respectively were Jill Sharp, 19, sophomore in nursing from Ocala, Idaho, and Diane Amasaki, 21, junior in business from Idaho Falls. Miss Sharp is sponsored by the Intercollegiate Night, Miss Yamasaki by the 70th Branch.

Because of a three-way tie, the number of contestants in the contest is 52, according to a Belle of the Y official. Originally the

Athletic Association NCAA tournament. Co-champions would be designated for the conference title, the spokesman said. In Saturday night's play, Arizona knocked off BYU 100-94, Arizona State downed Utah 104-73 and Texas-El Paso downed Colorado State 62-44.

New Mexico	W L Pct.
Brigham Young	9 4 .692
Arizona St.	8 4 .667
Arizona	8 4 .667
Texas-El Paso	5 8 .385
Colorado St.	4 8 .333
Wyoming	4 8 .333
Utah	3 10 .231

cut was to bring the number of girls to 50.

The remaining girls will participate in the dance contest and physical fitness contest before a second cut is made to 30 girls.

Cakes were auctioned Friday afternoon after the decision by four judges. The auction resulted in \$102.24 in donations to the student library fund.

The top three cakes were given to President Dallen H. Oaks, Ben E. Lewis, executive vice-president, and Dr. John Johnson of the Food and Nutrition Dept. Four other cakes were given to the judges. The remainder were sold by auctioneer Peter Sorenson, a sophomore in music from Phoenix, Ariz.

Turnabout meant a WAC tie for BYU over the weekend, but the Cougars could have done worse. After holding off Arizona State in Tempe Friday for a 90-86 win, BYU couldn't hold Arizona and fell victim to a 40-point Coniel Norman performance in Tucson Saturday, losing 100-94.

The Wildcats put down Cougar charge after charge, hitting the hoop hard from outside, just as the Cats had restrained the Sun Devils repeatedly in Tempe.

But despite the BYU loss, Wyoming's surprise decision over New Mexico in Albuquerque left the Cats and Lobos knotted after the loop leap with 9-4 records. Arizona State, with a weekend split, and Arizona, with a sweep, are second at 8-4.

ANYTHING is now possible, as all four leaders hit the road to finish the season next weekend. Arizona State and Arizona will visit Wyoming and Colorado State, New Mexico will hook up with UTEP at El Paso, and BYU is to face traditional rival Utah in Salt Lake City.

Wins by all four contenders could mean an unprecedented fourway tie for the title. Or BYU and Lobos losses matched with

WAC indoor

BYU track team lived up to its pre-meet billing by running away with the WAC indoor crown in the Salt Palace Friday and Saturday nights. The Cougars showed overall depth as they amassed 134 points to best surprise second place finisher Arizona by 31 points. Defending champion UTEP finished a distant third in the team race with 63 points.

BYU had several outstanding individual performers. Strong-legged triple-jumper Sigurd Langland added more than a foot to the WAC indoor record by leaping 52-8 and three-quarters inches. Just minutes after his record leap Langland changed from his jumping shoes into running spikes and placed third in the 600-yard run.

Langland's teammate Steve Baxter was nearly as impressive, handily won the long-jump (24-8) and then came back for third in the triple-jump (50-6).

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Arizona splits could also deadlock the issue. It was the BYU-ASU tilt that provided the catalyst for this four-way drama.

In a game of 13 ties, the Cats' free-throw prowess kept them in it and finally won it.

Monte Sarkalakis provided a fitting caper for a second half that saw BYU go 22-22 from the line as he hit two foul pitches with time elapsed.

BYU scored its last 10 points on free throws as the Sun Devils pressed. It was a good thing, too, for Mike Contreras and Jim Owens were intent on burning up the baskets from outside. Contreras, who earlier in the second half had scored 11 straight, hit on two jumpers in the last minute after Owens had connected twice.

THE LOSS was the season's first for ASU in Sun Devil Gym and came before a Sun record of 47-10 fans. The defeat also marked the first time in the last 21 home starts the Devils had bowed.

Doug Richards had a career high of 28 points for BYU. He had scored 26 against Washington (Milw.) in Provo. Contreras clicked on 11 of 21 attempts for 28 points for ASU.

High man Saturday night was

Coniel Norman. And was he high. Norman not only garnered a personal season high of 38 and career high—he's only a freshman), he obliterated any memories of his eight-point performance in Provo. The WAC scored leader burst a finger just before that contest.

Kresimir Cosic led the Cougars with 30 points and Richards poured in 24 before fouling out. Right from the opening tip the game was much like a track event with a basket at the finish line. The fresh feelers from Arizona beat the seasoned Cougs at their own running game and piled up a 50-43 halftime advantage.

The Wildcats managed to stay a couple of strides in front throughout the second half but the Cougars did have one big chance to pass 'em up. With 14 minutes left to play BYU had come back from a 10-point deficit and was down only two at 61-63. Bill Anderson was fouled by Norman while shooting.

Norman protested and picked up a technical, and Arizona coach Fred Snowden then protested enough to get a second "T." Anderson hit only one, Richards missed both technicals and the Cats failed to convert on the inbound pass.

BYU frolics in Salt Palace meet

Both efforts were personal best marks for the Cougar sophomores.

On the track distance men Uta Sotutu, Paul Cummings and Mitch Wiley starred for the Cats. After placing a close second in the 880 on Friday night, Sotutu returned Saturday night to successfully defend his 1000 yard run title. The little Fijiian ace played his usual waiting game back in the pack before spurring in one short straightaway past the entire field and into the lead to stay.

Sophomore Cummings picked up two gold medals by anchoring the winning Cougar distance medley relay squad and then coming back less than an hour later to cop the open mile (4:06.0). Cummings' feat was made easier by teammate Dave Babiracki who blazed his 1320 leg in the medley relay in 3:02.1.

When Babiracki began his leg BYU was running a distant third. By the time he handed the baton to Cummings the Cougars had a

15-yard lead over the second-place team.

BYU senior, Mitch Wiley also turned in a good performance. In the two-mile on Friday night, Wiley doggedly shadowed Utah's Scott Brinkhurst before falling prey to the Ute star's potent finishing kick in the final quarter-mile. Wiley did hold on for a second place finish and a personal best clocking of 8:53.2. Brinkhurst was forced to chip five seconds from his own WAC record in order to stay ahead of Wiley's pursuit.

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Daily Universe

Brigham Young University

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Vol 25, No 110

Provo, Utah

Monday, February 26, 1973



Thirty-seven race for ASBYU jobs

By DALE GARDINER
Universe Staff Writer

Campaigning for 10 ASBYU offices to be voted on in the March 6 and 7 primary is underway.

Signs appeared on off-campus apartment buildings immediately following Friday's nominations meeting in which the names of 37 candidates were entered in the various races.

Pairings nominated for the office of ASBYU president and executive vice president were Steve Davis and George Larsgard, Mac Haddow and Rick Wilson, along with Randy Smith and Dale Ogilvy.

Nominated for Academics vice-president were Craig Hickman, David

Jensen, Peter Jensen, Doug Ludlow, Phil Packer, Reed Robinson, Warren Robinson and Mike Silva.

FOUR CANDIDATES were nominated for Athletics vice-president: Steve Haldeman, Mike Hawkins, Gary Kern and David Waterman.

Only two candidates, Karl Knudsen and Cecelia Rosales, are competing for the office of Women's vice-president.

Paul Dobson, Chris Lansing and Mike Waddoups were nominated for Finance vice-president.

Three candidates were selected for the office of Culture vice-president: Richard Dance, John Elton and Richard Hill.

For the office of Social vice-president, two candidates were chosen to compete: Mark Alexander and Mark Meyers.

Joseph A. Cannon, John Falk, Richard Gutman and Kirk Rector were nominated for Student Community Services vice-president.

However, ASBYU President Bill Fillmore said students may run as write-in candidates. Persons interested in doing so can receive instructions at the fourth floor ELWC reception desk.

Write-in candidates will not have their names placed on the primary ballot. "Voters must write the candidate's name on the ballot," Fillmore said.

If a write-in candidate places within the top two for the office for which he is running, he will become an official candidate and have his name printed on the final election ballot, he explained.

Weekend digest

SAIGON

A North Vietnamese spokesman said today that no American prisoners of war will be released on Tuesday, but U.S. officials were hopeful of last-minute word from Hanoi announcing about 140 more POWs would be handed over.

"There will definitely not be any POW releases Tuesday," the chief North Vietnamese spokesman in Saigon, Bui Tin, told newsmen. He added that the list of the most prisoners to be turned over also would not be delivered today. He said word was expected soon from Hanoi, but he did not know when it would come.

TEL AVIV

Premier Golda Meir said as she left for the United States today that she thought the downing of a Libyan airline last week by Israeli fighters would have no effect on her talks with President Nixon.

SAIGON

South Vietnam charged Monday that North Vietnam had moved Soviet SAM-2 missile batteries into Quang Tri Province after the cease-fire began, violating the truce agreement.

Reliable informants said the presence of the anti-aircraft missiles was detected by U.S. reconnaissance flights and that such operations are continuing in South Vietnam. But the sources said they did not interpret this reconnaissance activity as a violation of the cease-fire agreement.

ATLANTIC CITY, N.J.

Television newscaster Walter Cronkite accused the Nixon administration Sunday of manipulating public opinion so that "to stand up and defend freedom of speech and press is to appear anti-Nixon."

Auto accident takes toll

Kathy Huff, a junior in T EDE was seriously injured in an auto accident Friday night at 1600 S. State St. in Provo, at about 10 p.m.

Officers Hughes and Jacobson responded to a call from Mrs. David Schroeder of 1611 S. State, Provo. Apparently a car driven by George R. Fritz pulled out of the driveway of the Whip at 1650 S. State in front of the auto driven by Kathy Huff, 238 E. 100 N., Springfield, which was heading south on State St.

Schroeder and his wife heard the crash but didn't see the accident. They helped administer aid to Fritz and Jean Carling, 340 W. 310 N. Orem, a passenger in his car. They weren't aware of the condition of the Huff auto.

Miss Huff was taken to Utah Valley Hospital and transferred to the LDS Hospital in Salt Lake, and is now in



Hope sprigs
eternal
for Spring

The lacy asymmetry of this Kent Knudsen photo recalls the dormance of winter as spring starts to nudge around the corner. The photo was shot by laying dried springs directly on photo paper. It won fourth place in the recent Physics 177 photo contest.

Junior Kathy Huff in serious condition

University Hospital in Salt Lake in critical condition.

Fritz was treated for lacerations at

Utah Valley Hospital and released. Jean Carling is in Utah Valley Hospital with cuts, abrasions, and contusions.

Elder McConkie to speak

Elder Bruce R. McConkie, the most recently called member of the Council of the Twelve, will be Tuesday's Devotional speaker. The assembly begins at 10 a.m. in the Marriott Center.

Elder McConkie was chosen to be a member of the Council at the October 1972 General Conference of the Church, filling a vacancy in the 12-member quorum created by the death of his father-in-law, President Joseph Fielding Smith, and the subsequent calling of Elder Marion G. Romney of the Council to the First Presidency.

Previously Elder McConkie served as a member of the Council of Seventy, a

position he had held since October 1948.

Elder McConkie is a former U.S. Army security and intelligence officer and assistant city attorney and a prosecutor. He has been married since 1937 to Amelia Smith, President Smith's daughter and has nine children.

Elder McConkie has authored and published an encyclopedia-type work called "Mormon Doctrine," and has edited three volumes entitled "Doctrine of Salvation," comprised of the sermon and writings of President Joseph Fielding Smith. He is the author of "Doctrine of New Testament Commentary," volumes I and II. He holds a bachelor of law (1939) and doctor of juris degree (1967) from the University of Utah.